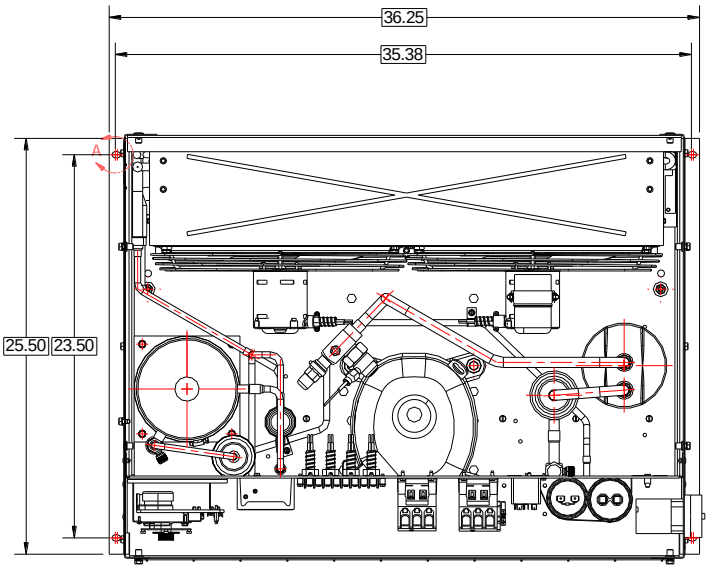
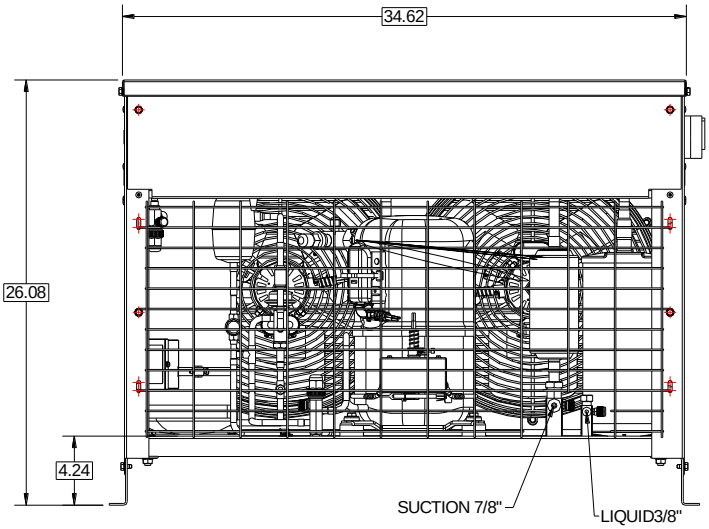
TECUMSEH OUTDOOR CONDENSING UNIT

Model	**AWA9518ZXNHN**
BOM	**32L2133-2E***
Air Cooled	**2 ¼ HP**
Application	**Commercial Temp**
Refrigerant	**R404A**
Volts-Hz-Ph	**208-230/60/1**





AWA9518ZXNHN	Overall Dimensions, inch (mm)			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs. (kg)
	26.43 (671)	36.25 (921)	26.08 (662)	7/8"	3/8"	20.09 lbs	1500	38.6	320 (145)

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures														
		80°F			90°F			95°F			100°F			110°F		
T, °F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.2	10200	2020	90	8700	1980	100	8000	1950	105	7200	1930	109	5900	1870	119
-5	27.5	11600	2140	92	10000	2120	101	9200	2110	106	8500	2090	111	7000	2050	120
0	32.1	13100	2270	93	11400	2270	103	10600	2260	107	9800	2250	112	8200	2230	121
5	37.0	14800	2390	95	13000	2410	104	12100	2410	109	11200	2410	113	9600	2400	123
10	42.4	16600	2520	96	14700	2560	106	13700	2560	110	12800	2570	115	11000	2570	124
15	48.2	18500	2650	98	16500	2700	107	15500	2710	112	14400	2720	116	12500	2750	126
20	**54.5**	**20600**	**2780**	**100**	**18400**	**2840**	**109**	**17300**	**2860**	**114**	**16200**	**2880**	**118**	**14100**	**2920**	**127**
25	61.2	22900	2910	102	20500	2990	111	19300	3020	115	18100	3040	120	15800	3090	129
30	68.4	25300	3030	104	22700	3130	113	21400	3170	117	20100	3200	122	17600	3260	130
35	76.1	27800	3160	106	25000	3270	115	23600	3320	119	22200	3360	124	19500	3430	132
40	84.4	30400	3300	109	27400	3420	117	25900	3470	121	24500	3510	126	21500	3600	134
45	93.2	33200	3430	111	30000	3560	120	28400	3620	124	26800	3670	128	23600	3770	136

Performance @ 60 Hz, Return gas 40°F below 20°F Evaporator and 65°F above 20°F evaporator, SubCooling 5°F

*** OPTION CODE:** See reverse side for Available Options

Parts/Specifications

STANDARD

Unit BOM	**32L2133-2E**	Fan Motor	810F050C20
Unit MODEL	**AWA9518ZXNHN**	Replacement Fan Motor	50W230
		Fan Motor Qty	2
Refrigeration Range	-10°F to 45°F	Fan Motor RLA	0.7
Design Pressure Low / High	181 / 450	Fan Blade	51568-1
Volts - HZ - Ph	208-230V ~ 60HZ	Fan Guard	70831
Voltage Range	187 - 253	Shroud	70648-2
Min. Circuit Ampacity	20.04		
Max. Fuse Size	35	High Pressure switch	84095-2L
		Low Pressure Control	84026-2
Compressor MODEL	AWA9514ZXN	Dual Pressure Conrol	
Compressor BOM	AW617ET-099-P2		
Compressor LRA	90	Head Master Valve	70083
Compressor RLA	14.74	Check Valve	56626
		Process Valve	31583-1
OverLoad	internal	Discharge Valve (Base)	56618
Replacement Kit - O/L		Liquid Valve (Base)	56500-K06
Relay	820ARR3J50	Liquid Valve (Receiver)	attached
Replacement Kit - Relay	K71-19	Suction Valve (Base)	56500-K14
Run Capacitor	85PR370F21	Suction Valve (Rotolock)	
Run Capacitor Rating	45 MFD, 370 V		
Start Capacitor	85PS330D69	Condenser	50858-1
Start Capacitor Rating	145-175 MFD, 330 V	Receiver	51099-1L
Contactor	91014B	Accumulator	TK00042000
		Liquid Filter	70139
Unit Drawing	DGU1918-L103	Sight Glass	70084-S
Wiring Diagram	WD21-2XT2	Suction Filter	70822-5S
Wiring Diagram (A or F opt.)	WD21-2AT2	CrankCase Heater	91022-1

AVAILABLE OPTIONS

32Lxxxx-2ER(F)ATnD

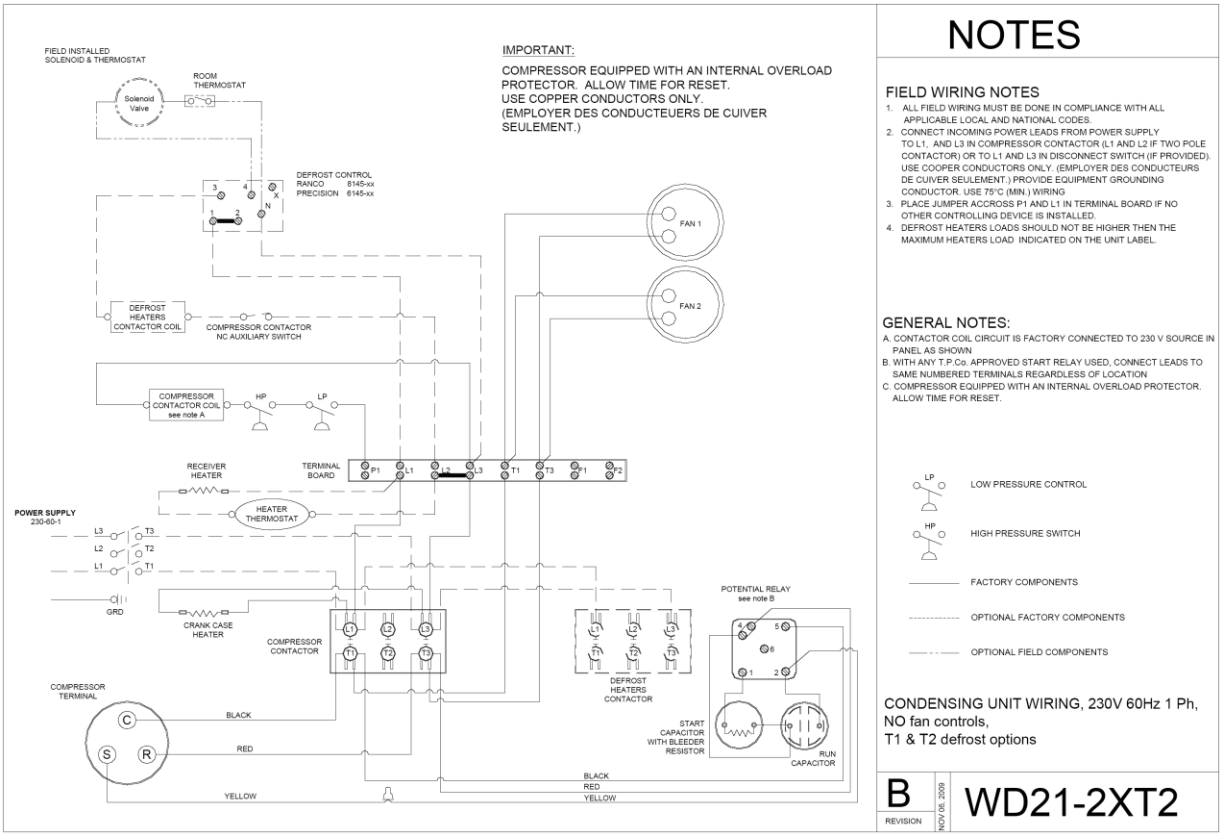
R Heated/Insulated Receiver
F Fixed Fan Control
A Adjustable Fan Control
T1 Air Defrost Timer
T2 Electrical Defrost Timer & Defrost Heater Contactor
D Disconnect Switch (nonfused)

AVAILABLE ACCESSORIES

Solenoid Valve (supplied loose)	KSVC-264
Hail Louver Assy	LLPG-201

REPLACEMENT PARTS

Receiver Heater (R option)	92124-2
Receiver Thermostat (R option)	84102-2
Fixed Fan Control (F option)	84132-1
Adjustable Fan Control (A option)	
Defrost Timer (T1 or T2 option)	84110
Defrost Heater Contactor and Auxiliary Switch (T2 opt.)	91014B and 91014-AUX
Disconnect (D option)	LDSG-613



NOTES

FIELD WIRING NOTES

1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, AND L3 IN COMPRESSOR CONTACTOR (L1 AND L2 IF TWO POLE CONTACTOR) OR TO L1 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. PLACE JUMPER ACCROSS P1 AND L1 IN TERMINAL BOARD IF NO OTHER CONTROLLING DEVICE IS INSTALLED.
4. DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL.

GENERAL NOTES:

A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. WITH ANY T.P.Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION
C. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.

LP LOW PRESSURE CONTROL
HP HIGH PRESSURE SWITCH
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 1 Ph,
NO fan controls,
T1 & T2 defrost options

B REVISION NOV.06, 2009

WD21-2XT2